

Individual Proposal Report

Title Stanislaus River spawning gravel replenishment at Knights Ferry

Number H137

Geographic Area San Joaquin Tributaries/Stanislaus River

Primary Stressor Addressed Channel Form Changes

Project Type Implementation

Applicant Type Private

Recommended Funding \$536,410

Cost Share Applicant - \$90,000 for monitoring

Description Gravel replacement project to restore spawning habitat at 18 riffles in the Stanislaus River, using hydraulic pumps to place 10,800 tons of gravel. Pre-project spawner use, intragravel habitat quality, and site stability would be evaluated at each site, and compared to post-project evaluations. Comparisons would be made to other gravel augmentation methods. Benefitted species is San Joaquin fall run chinook salmon. Combined funding covers total project cost.

ERPP Linkage

Zone: East San Joaquin Basin

Ecosystem Elements and Targets (T):

Chinook Salmon

- T-1 Maintain average cohort replacement rate of fall-run chinook salmon above 1.0 while stocks rebuilding. Then maintain replacement rates equal to or greater than 1.0 when stocks reach restoration goal levels set by the regulatory agencies. (Volume II, Page 394)

Natural Sediment Supply

- T-1 Maintain existing levels of erosion and gravel recruitment in tributaries or restore desirable levels by directly manipulating/augmenting gravel supplies where natural low flow process has been interrupted (Volume II, Page 387)